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CLAIMS:

What is claimed is:

A method of generating a security object for use in
 securing an item, comprising:

receiving security object data;

setting one or more attributes associated with the security object data, wherein the one or more attributes include a user designation of a security object type; and

- encapsulating the security object data and the one or more attributes with one or more methods, wherein the security object is used to control access to secured contents.
- 15 2. The method of claim 1, further comprising obtaining the one or more methods from a security object class.
- 3. The method of claim 1, wherein the one or more methods operate on the security object data and one or more 20 attributes.
 - 4. The method of claim 1, wherein the one or more methods operate on the security object data and input data passed to the security object.
 - 5. The method of claim 1, wherein the security object data is one of textual data, audio data, graphical data, and biometric data.
- 30 6. The method of claim 1, wherein the security object type is one of a single use security object, a group security object, a timed security object, a concurrent multi-user

security object, a security object throttle, a translated password security object, a security object augmented by a at least one of a CPU identifier, a CPU speed and a system configuration, a Wave file or MP3 security object, an image

- 5 file security object, a security object augmented by a location of the user, a security object augmented by a current window and/or pointer position, a security object augmented by an IP address, a security object augmented by a screen background characteristic, a security object
- 10 augmented by a personal identification number one of a speed of a card swipe and a number of times of a card swipe, a security object augmented by a mobile telephone ring or mobile telephone identification number, a security object augmented by a caller identification of the user, and a security object augmented by an environmental condition.
- 7. The method of claim 1, further comprising: providing the security object to a security system, wherein the security system is not made aware of the 20 security object type.
 - 8. The method of claim 7, wherein the security system invokes the security object in response to a request for access by the user.

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- 9. The method of claim 1, storing the security object data on an electronic medium in a device with data transmission capability.
- 30 10. The method of claim 9, wherein the device is a portable device.

- 11. The method of claim 9, wherein the portable device is one of a keychain, a portable MP3 player, a mobile telephone, a pager, an electronic wrist watch, a remote control, a garage door transmitter, a keyless entry device 5 for a vehicle, a smartcard, and a magnetic stripe card.
 - 12. The method of claim 7, wherein the security object contains a partial set of methods and wherein the security system contains a complementary set of methods.

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- 13. The method of claim 1, wherein the security object requires hardware assistance for authentication of input data passed to the security object.
- 15 14. The method of claim 1, wherein the security object data is received from a client apparatus.
 - 15. The method of claim 1, wherein the security object data is received from a user via a user interface.

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- 16. The method of claim 15, wherein the user interface is a security object foundry application resident on a computing device.
- 25 17. The method of claim 15, wherein the user interface is an interface transmitted from a server apparatus to a client apparatus.
- 18. A computer program product in a computer readable 30 medium for generating a security object for use in securing an item, comprising:

first instructions for receiving security object data;

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second instructions for setting one or more attributes associated with the security object data, wherein the one or more attributes include a user designation of a security object type; and

- third instructions for encapsulating the security object data and the one or more attributes with one or more methods, wherein the security object is used to control access to secured contents.
- 10 19. The computer program product of claim 18, fourth instructions for obtaining the one or more methods from a security object class.
- 20. The computer program product of claim 18, wherein the 15 one or more methods operate on the security object data and one or more attributes.
- 21. The computer program product of claim 18, wherein the one or more methods operate on the security object data and 20 input data passed to the security object.
 - 22. The computer program product of claim 18, wherein the security object data is one of textual data, audio data, graphical data, and biometric data.
 - 23. The computer program product of claim 18, wherein the security object type is one of a single use security object, a group security object, a timed security object, a concurrent multi-user security object, a security object
- 30 throttle, a translated password security object, a security object augmented by a at least one of a CPU identifier, a CPU speed and a system configuration, a Wave file or MP3

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security object, an image file security object, a security object augmented by a location of the user, a security object augmented by a current window and/or pointer position, a security object augmented by an IP address, a security object augmented by a screen background characteristic, a security object augmented by a personal identification number and one of a speed of a card swipe and a number of times of a card swipe, a security object augmented by a mobile telephone ring or mobile telephone identification number, a security object augmented by a caller identification of the user, and a security object augmented by an environmental condition.

24. The computer program product of claim 18, further 15 comprising:

fourth instructions for providing the security object to a security system, wherein the security system is not made aware of the security object type.

- 20 25. The computer program product of claim 24, wherein the security system invokes the security object in response to a request for access by the user.
- 26. The computer program product of claim 18, further
 25 comprising fourth instructions for storing the security object data on an electronic medium in a device with data transmission capability.
- 27. The computer program product of claim 18, further 30 comprising fourth instructions for storing the security object data in a portable device.

- 28. The computer program product of claim 27, wherein the portable device is one of a keychain, a portable MP3 player, a mobile telephone, a pager, an electronic wrist watch, a remote control, a garage door transmitter, a keyless entry device for a vehicle, a smartcard, and a magnetic stripe card.
- 29. The computer program product of claim 24, wherein the security object contains a partial set of methods and 10 wherein the security system contains a complementary set of methods.
 - 30. The computer program product of claim 18, wherein the security object requires hardware assistance for
- 15 authentication of input data passed to the security object.
 - 31. The computer program product of claim 18, wherein the security object data is received from a client apparatus.
- 20 32. The computer program product of claim 18, wherein the security object data is received from a user via a user interface.
- 33. The computer program product of claim 32, wherein the 25 user interface is a security object foundry application resident on a computing device.
- 34. The computer program product of claim 32, wherein the user interface is an interface transmitted from a server 30 apparatus to a client apparatus.

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35. An apparatus for generating a security object for use in securing an item, comprising:

means for receiving security object data;
means for setting one or more attributes associated

with the security object data, wherein the one or more
attributes include a user designation of a security object
type; and

means for encapsulating the security object data and the one or more attributes with one or more methods, wherein 10 the security object is used to control access to secured contents.

- 36. The apparatus of claim 35, means for obtaining one or more methods from a security object class.
- 37. The apparatus of claim 35, wherein the one or more methods operate on the security object data and one or more attributes.
- 20 38. The apparatus of claim 35, wherein the one or more methods operate on the security object data and input data passed to the security object.
- 39. The apparatus of claim 35, wherein the security object 25 data is one of textual data, audio data, graphical data, and biometric data.
 - 40. The apparatus of claim 35, wherein the security object type is one of a single use security object, a group
- 30 security object, a timed security object, a concurrent multi-user security object, a security object throttle, a translated password security object, a security object

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augmented by a at least one of a CPU identifier, a CPU speed and a system configuration, a Wave file or MP3 security object, an image file security object, a security object augmented by a location of the user, a security object

- 5 augmented by a current window and/or pointer position, a security object augmented by an IP address, a security object augmented by a screen background characteristic, a security object augmented by a personal identification number and one of a speed of a card swipe and a number of
- 10 times of a card swipe, a security object augmented by a mobile telephone ring or mobile telephone identification number, a security object augmented by a caller identification of the user, and a security object augmented by an environmental condition.

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41. The apparatus of claim 35, further comprising:

means for providing the security object to a security
system, wherein the security system is not made aware of the
security object type.

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- 42. The apparatus of claim 41, wherein the security system invokes the security object in response to a request for access by the user.
- 25 43. The apparatus of claim 18, further comprising means for storing the security object data on an electronic medium in a device with data transmission capability.
- 44. The apparatus of claim 43, wherein the device is a 30 portable device.

- 45. The apparatus of claim 44, wherein the portable device is one of a keychain, a portable MP3 player, a mobile telephone, a pager, an electronic wrist watch, a remote control, a garage door transmitter, a keyless entry device 5 for a vehicle, a smartcard, and a magnetic stripe card.
 - 46. The apparatus of claim 41, wherein the security object contains a partial set of methods and wherein the security system contains a complementary set of methods.

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- 47. The apparatus of claim 35, wherein the security object requires hardware assistance for authentication of input data passed to the security object.
- 15 48. The apparatus of claim 35, wherein the security object data is received from a client apparatus.
 - 49. The apparatus of claim 35, wherein the security object data is received from a user via a user interface.

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- 50. The apparatus of claim 49, wherein the user interface is a security object foundry application resident on a computing device.
- 25 51. The apparatus of claim 49, wherein the user interface is an interface transmitted from a server apparatus to a client apparatus.
 - 52. A method of securing contents, comprising:
- receiving a request for access to the contents, the request including input data;

in response to receiving the request for access,
retrieving the a user defined security object;
 applying the user defined security object to the input
data; and

controlling access to the contents based on the application of the user defined security object to the input data.